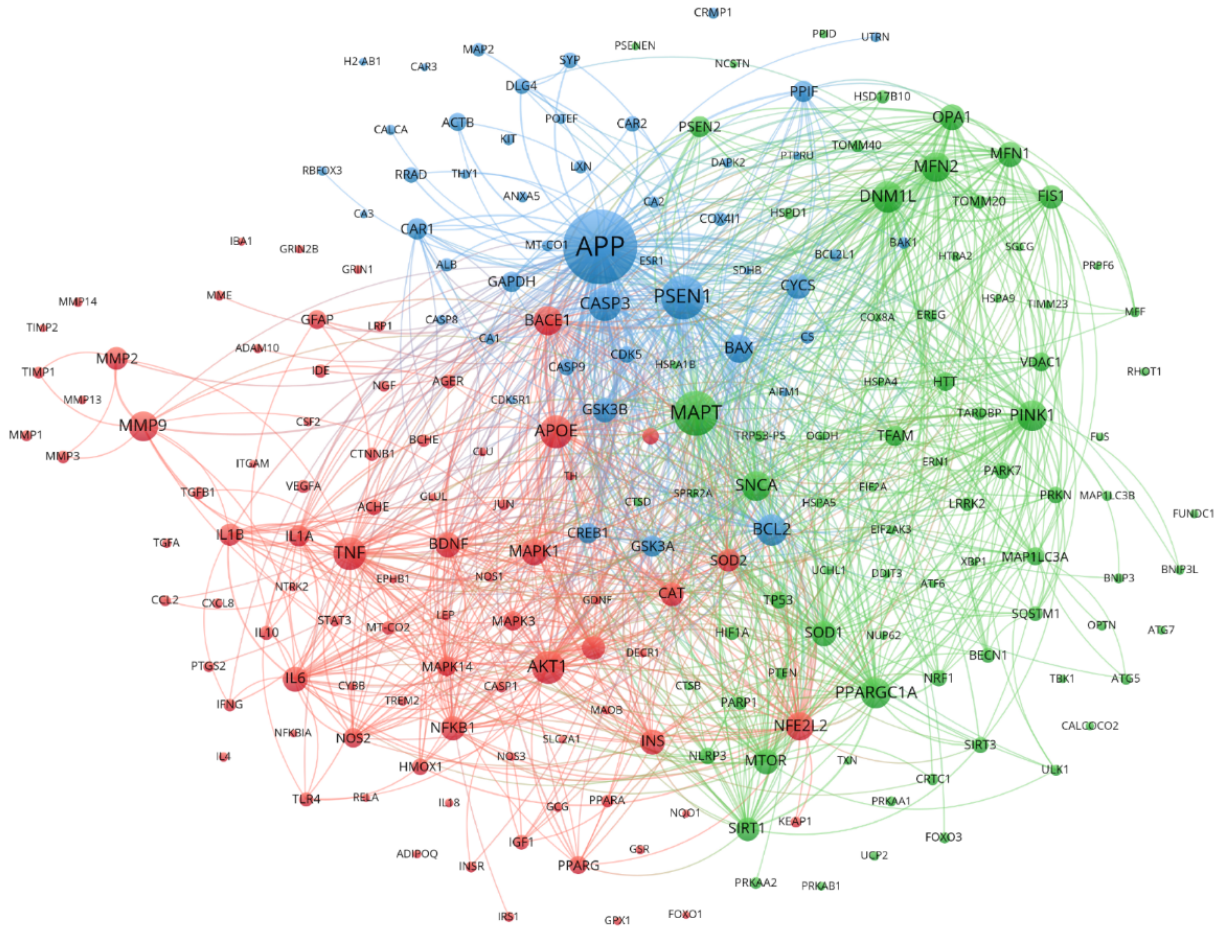
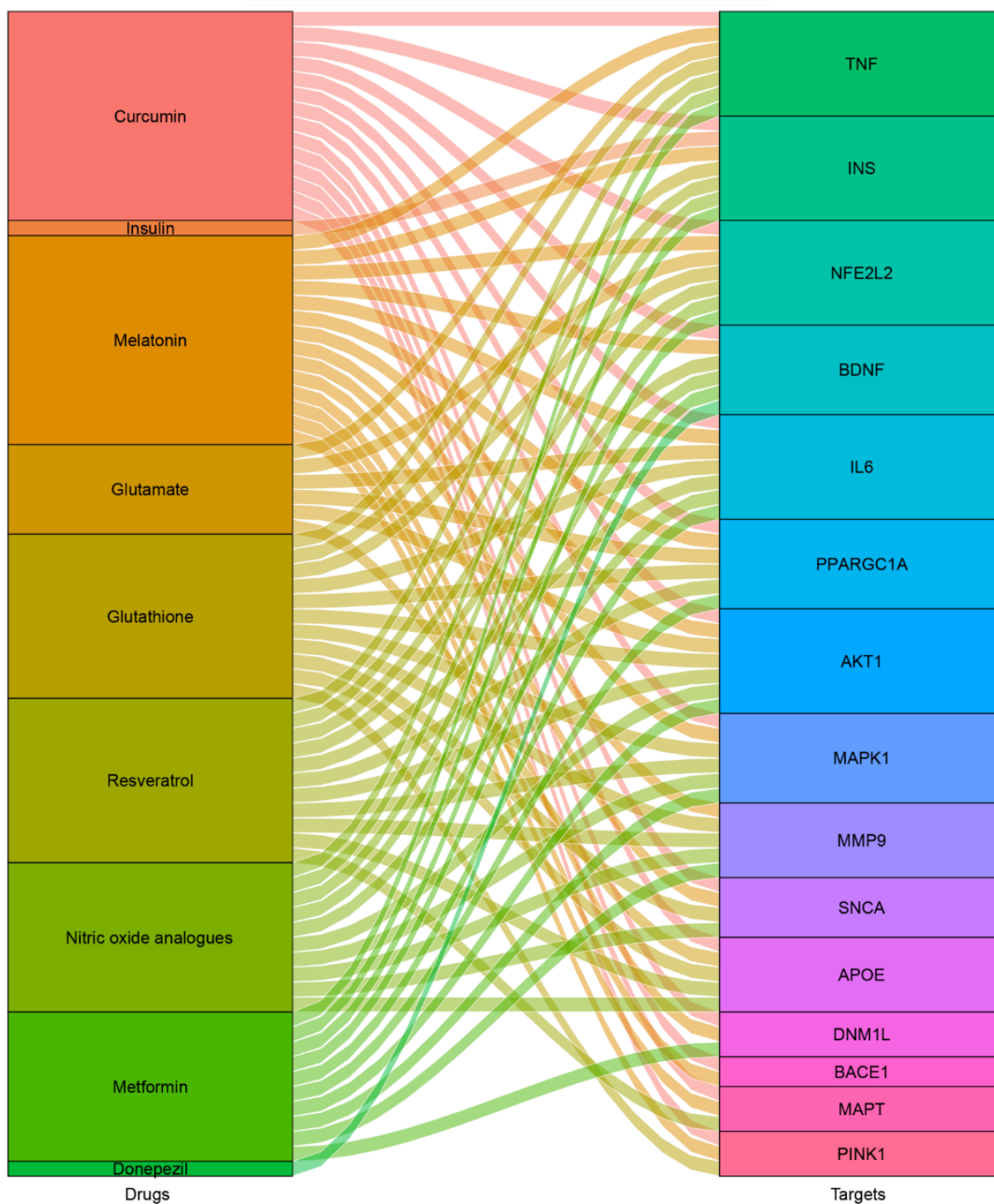


Supplementary Material

Mitophagy in Alzheimer's Disease: A Bibliometric Analysis from 2007 to 2022



Supplementary Figure 1. A network of all targets from the abstract of 5,146 publications. This network consists of three clusters. Targets of each cluster represent the gene or protein names appearing in the abstract.



Supplementary Figure 2. Sankey diagram of all drugs/molecules and corresponding targets. These drugs were extracted from the retrieved 5,146 publications. The drug-target relationships were obtained from PubChem of the National Library of Medicine.

Supplementary Table 1. Search strategy in the study.

Item	Search strategy criteria
#1	Ts = ("alzheimer's disease" OR "alzheimer's diseases" OR "alzheimer disease" OR "alzheimer diseases" OR "alzheimer associated" OR "alzheimer beta protein" OR "alzheimer dementia" OR "alzheimer's dementia" OR "alzheimer dementias" OR "alzheimer type dementia" OR "Alzheimer amyloid" OR "AD" OR "ATD" OR "Alzheimer" OR "FAD" OR "familial alzheimer disease" OR "familial alzheimer diseases" OR "alzheimer syndrome" OR "alzheimer sclerosis" OR "presenile dementia" OR "senile dementia" OR "senile degenerative" OR "degenerative dementia")
#2	Ts = ("mitochondria autophagy" OR "mitochondrion autophagy" OR "mitochondrial autophagy" OR "mitochondrion autophagocytosis" OR "mitochondria autophagocytosis" OR "mitochondrial autophagocytosis" OR "mitophagy" OR "mitochondrial turnover" OR "transmitophagy" OR "mitochondrion transport" OR "mitochondria transport" OR "mitochondrial transport" OR "mitochondria transfer" OR "mitochondrion transfer" OR "mitochondrial transfer" OR "transcellular mitophagy" OR "transmitotic" OR "transmitochondrial" OR "transmitochondrion" OR "transmitochondria" OR "mitochondrion transplant" OR "mitochondria transplant" OR "mitochondrial transplant" OR "mitochondrial swelling" OR "mitochondrial hypertrophy" OR "mitochondrial hypertrophies" OR "megamitochondria" OR "megamitochondrias" OR "giant mitochondria" OR "giant mitochondria" OR "mitochondrial damage" OR "mitochondria damage" OR "mitochondrion damage" OR "mitochondrial dynamic" OR "mitochondrial dynamics" OR "mitochondrial dysfunction" OR "mitochondria dysfunction" OR "mitochondrial biogenesis" OR "mitochondrial homeostasis" OR "mitophagy-related genes" OR "mitochondria apoptosis" OR "mitochondrion apoptosis" OR "mitochondrial apoptosis" OR "mitochondria fragment" OR "mitochondrial fragment" OR "mitochondria fragmentation" OR "mitochondrial fragmentation" OR "mitochondrial fissions" OR "mitochondrial fission" OR "mitochondrial fusion" OR "mitochondrial fusions" OR "mitochondria unfold protein" OR "mitochondrial unfold protein" OR "mitochondrial plasticity" OR "mitochondrial fitness" OR "mitochondrial metabolism" OR "mitochondrial deregulation" OR "mitochondrion deregulation" OR "mitochondria deregulation" OR "mitochondria ROS" OR "mitochondrial ROS" OR "mitochondrial permeability" OR "mitochondrial oxidative" OR "mitochondria-mediated apoptosis" OR "mitochondria cargo" OR "mitochondrial cargo" OR "mitochondria ubiquitination" OR "mitochondrial ubiquitination" OR "mitochondria ubiquitin" OR "mitochondrial ubiquitin" OR "mitochondrial morphology" OR "mitochondrial injury" OR "mitochondria injury" OR "mitochondrion injury" OR "phosphorylation deficiency" OR "phosphorylation deficiency")
#3	#1 AND #2

Ts, Topics

Supplementary Table 2. Top 10 most frequently occurring diseases in each cluster.

Ranks	Terms	Frequency	Weight
<i>Cluster 1</i>			
1	Neoplasms	755	15,078
2	Diabetes mellitus	584	12,750
3	Stroke	408	9,875
4	Ischemia	389	9,820
5	Glucose metabolism disorders	350	9,144
6	Obesity	307	7,449
7	Cardiovascular diseases	274	6,625
8	Hypertension	244	6,204
9	Brain injuries	224	6,286
10	Brain injuries, traumatic	216	5,767
<i>Cluster 2</i>			
1	Parkinson's disease	1,163	21,173
2	Huntington's disease	528	11,591
3	Neuroblastoma	456	10,126
4	Amyotrophic lateral sclerosis	405	9,252
5	Ophthalmoplegic neuromuscular disorder with abnormal mitochondria	398	8,990
6	Parkinson's disease, secondary	305	7,865
7	Immunologic deficiency syndromes	289	7,183
8	Tauopathies	288	7,455
9	Hereditary degenerative disorders, nervous system	247	6,644
10	Attenuated familial adenomatous polyposis	236	6,074
<i>Cluster 3</i>			
1	Alzheimer's disease	2,887	32,223
2	Mitochondrial dysfunction	2,172	28,804
3	Neurodegenerative diseases	1,935	29,500
4	Nerve degeneration	1,305	24,828
5	Cognition disorders	1,263	24,343
6	Dementia	1,035	21,351
7	Neurotoxicity syndromes	978	19,801
8	Memory disorders	758	17,072
9	Metabolic diseases	524	12,325
10	Learning disabilities	254	6,416
<i>Cluster 4</i>			
1	Mental disorders	438	11,181
2	Adjustment disorders	352	9,201
3	Seizures	154	4,203
4	Schizophrenia	108	2,709
5	Intellectual disability	74	1,873
6	Anxiety disorders	70	1,651
7	Amnesia	69	1,795
8	Ataxia telangiectasia	59	1,266
9	Bipolar disorder	59	1,535
10	Developmental disabilities	59	1,587

Supplementary Table 3. All drugs or molecules from 5,146 publications.

Drugs or molecules			
Curcumin	Nitric oxide	Acetylcholine	Nutraceuticals
Insulin	Metformin	Cholesterol	Zinc
Melatonin	Donepezil	Phytochemicals	Huperzine A
Iron	Polyphenols	Coenzyme Q10	Hydrogen sulfide
Glutamate	BDNF	l-carnitine	Cardiolipin
Glutathione	Flavonoids	Memantine	Copper
Resveratrol	Sirtuins	Methylene blue	NAD (+)